

Listing of Claims:

1. (Previously Presented) A method of arranging transmission of packet data in a system comprising a mobile terminal, a wireless local network and a mobile network, the method comprising:

signalling end-to-end service related parameters for communication between the mobile terminal and the wireless local network,

communicating a resource authorization identifier to the mobile terminal,

transmitting the resource authorization identifier to the mobile network via the wireless local network,

receiving a request for authorization from the mobile network on the basis of the resource authorization identifier, and

sending an authorization response to bind a tunnel between the mobile terminal and the mobile network to an end-to-end data flow of the mobile terminal wherein the authorization response comprises identification information on the end-to-end data flow and tunnel identification information identifying the tunnel.

2. (Previously Presented) A method as claimed in claim 1, further comprising transmitting at least one filter or gate parameter is transmitted to the mobile network, the at least one filter or gate parameter is associated with the tunnel, and filtering or gating is arranged in the mobile network to/from the tunnel based on the association.

3. (Original) A method as claimed in claim 1, wherein the same tunnel between the mobile network and a network element of the mobile network and utilizing the data transmission resources of the local network is used for signalling purposes and for user data transmission.

4. (Previously Presented) A method as claimed in claim 1, wherein a first tunnel between the mobile terminal and a first network element of the mobile network is established for end-to-end service parameter signalling, and a second tunnel between the mobile terminal and a second network element of the mobile network is established for user data transmission after the reception of resource authorization identifier.

5. (Original) A method as claimed in claim 1, wherein the tunnel between the mobile terminal and the mobile network is an IPSec tunnel, whereby the tunnel is established by utilizing an IKE (Internet Key Exchange) protocol.

6. (Original) A method as claimed in claim 1, wherein the mobile network is a 3GPP network offering a packet-switched service comprising at least one network element supporting access via a WLAN (Wireless Local Area Network).

7. (Original) A method as claimed in claim 5, wherein an association is arranged between the tunnel and a 3GPP-WLAN interworking system bearer.

8. (Previously Presented) A wireless system comprising a mobile terminal, a wireless local network and a mobile network, wherein the wireless local network is configured to provide data transmission for the mobile terminal, the mobile terminal is configured to receive a resource authorization identifier from a separate signalling element during the negotiation of end-to-end service related parameters,

the mobile terminal is configured to transmit the resource authorization identifier to the mobile network via the wireless local network,

the mobile network is configured to request authorization from the signalling element on the basis of the resource authorization identifier,

the mobile network is configured to bind a tunnel between the mobile terminal and the mobile network to an end-to-end data flow of the mobile terminal on the basis of an authorization response received from the signalling element and comprising identification information on the end-to-end data flow and tunnel identification information identifying the tunnel.

9. (Original) A network element for a mobile network connectable to a wireless local network providing data transmission for a mobile terminal, wherein the network element is configured to establish a tunnel with a mobile terminal for transferring information with the mobile terminal accessing the mobile network via the wireless local network,

the network element is configured to receive a resource authorization identifier from the mobile terminal,

the network element is configured to request authorization from a signalling element on the basis of the resource authorization identifier,

the network element is configured to bind a tunnel between the mobile terminal and the mobile network to an end-to-end data flow of the mobile terminal on the basis of an authorization response received from the signalling element and comprising identification information on the end-to-end data flow and tunnel identification information identifying the tunnel.

10. (Original) A network element according to claim 9, wherein the network element is configured to transmit at least one filter or gate parameter from the signalling element to the mobile network,

the network element is configured to associate the received at least one filter or gate parameter with the tunnel utilizing local network resources, and

the network element is configured to arrange filtering or gating in the mobile network to/from the tunnel based on the association.

11. (Original) A network element according to claim 9, wherein the network element is configured to use the same tunnel between the mobile network and a network element of the mobile network and utilizing the data transmission resources of the local network for signalling purposes and for user data transmission.

12. (Original) A network element according to claim 9, wherein the network element is configured to establish a first tunnel between the mobile terminal and a first network element of the mobile network for the mobile terminal signalling, and a second tunnel between the mobile terminal and a second network element of the mobile network for user data transmission after the reception of a resource authorization identifier.

13. (Original) A network element according to claim 9, wherein the tunnel between the mobile terminal and the mobile network is an IPSec tunnel, whereby the tunnel is established by utilizing an IKE (Internet Key Exchange) protocol.

14. (Original) A network element according to claim 9, wherein the network element is a 3GPP network element offering a packet-switched service for a mobile terminal accessing a WLAN (Wireless Local Area Network).

15. (Original) A wireless terminal, wherein the wireless terminal is configured to connect a wireless local network,
the wireless terminal is configured to establish a tunnel with a network element of a mobile network via the wireless local network,
the wireless terminal is configured to receive a resource authorization identifier from a separate signalling element during the negotiation of end-to-end service related parameters, and
the wireless terminal is configured to transmit the resource authorization identifier to the mobile network by using the tunnel.

16. (Previously Presented) A computer readable medium encoded with computer executable instructions configured to:
receive a resource authorization identifier from a mobile terminal of a mobile network,
request authorization from a signalling element on the basis of the resource authorization identifier, and
bind a tunnel between the mobile terminal and the mobile network to an end-to-end data flow of the mobile terminal on the basis of an authorization response received from the signalling element and comprising identification information on the end-to-end data flow and tunnel identification information identifying the tunnel.

17. (Previously Presented) A computer readable medium encoded with computer executable instructions configured to:

receive a resource authorization identifier from a separate signalling element during the negotiation of end-to-end service related parameters, and
transmit the resource authorization identifier to mobile network by using a tunnel.

18. (Previously Presented) A wireless terminal as claimed in claim 15, wherein the tunnel is used for signaling purposes and for user data transmission.

19. (Previously Presented) A wireless terminal as claimed in claim 15, wherein a first tunnel is established for end-to-end service parameter signalling, and a second tunnel is established for user data transmission after the reception of the resource authorization identifier.

20. (Previously Presented) A computer readable medium as claimed in claim 17, wherein the computer executable instructions are further configured to transmit data and signaling using the tunnel.

21. (Previously Presented) A computer readable medium as claimed in claim 17, wherein the computer executable instructions are further configured to transmit end-to-end service parameter signaling using a first tunnel and to transmit user data transmission using a second tunnel.

22. (Previously Presented) A wireless system comprising:
a wireless network configured to provide data transmission in a network;
a signaling element coupled to the wireless network and configured to provide a resource authorization identifier during the negotiation of end-to-end service related parameters;
wherein the wireless network is configured to request authorization from the signalling element on the basis of the resource authorization identifier, and to bind a tunnel for an end-to-end data flow on the basis of an authorization response received from the signalling element and comprising identification information on the end-to-end data flow and tunnel identification information identifying the tunnel.

23. (Previously Presented) A wireless system as claimed in claim 22, wherein the wireless network binds a first tunnel for parameter signaling and a second tunnel for user data transmission.

24. (Previously Presented) A wireless system as claimed in claim 22, wherein the signaling element is configured to transmit at least one filter or gate parameter to the wireless network, wherein the at least one filter or gate parameter is associated with the tunnel.